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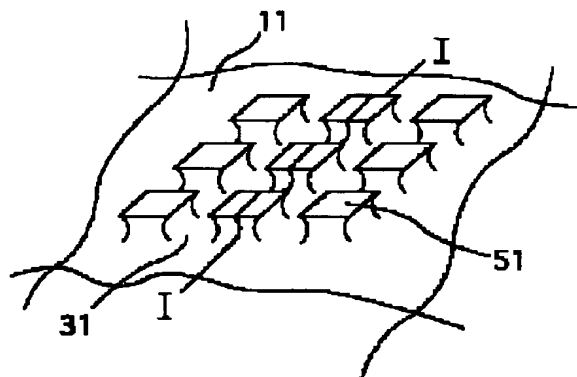
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APPLICANT : TAIHO KOGYO CO LTD;

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TITLE : CURRENT COLLECTOR BODY FOR
FUEL CELL



ABSTRACT : PROBLEM TO BE SOLVED: To improve current collecting performance by enlarging the contact area with electrodes on the cross-sectional area of a gas passage, by forming the gas passage on the contact surface with the electrodes of a pair of current collectors having the gas passage also serving as a gas chamber of reactive gas on the opposite surface to a pair of electrodes for sandwiching a solid electrolyte film, and providing the recessed part having a cross-sectional shape having the inside widening more than the opening part.

SOLUTION: A gas passage 31 of the recessed part, having a cross section having the inside widening more than the opening part contacting with electrodes, is arranged in a lattice shape on both surfaces of a current collector 11, such as stainless steel having a construction material which is hardly degraded by transmission and reaction heat of reactive gas. Thus, the contact area with the electrodes becomes large to increase a flow rate of the reactive gas. The curved starting part having the inside starting to widen more than a width of an opening is desirably arranged in the opening part of the gas passage 31, so that the tip of the opening part does not turn into an easily foldable acute angle shape. It is recommended that the tip of the opening part be properly rounded to prevent the defect. The current collector is manufactured by performing etching processing, after masking a position of the thick part 51.

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